



COMPLETION PRODUCTS

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TUBING/CASING PATCHES

Halliburton's tubing/casing patches provide a heavy-duty permanent seal over splits, holes, or perforations in tubing and casing. The patches are run on electric wireline or tubing and set with a special pressure-setting tool that has a special charge similar to that used to set a permanent packer. These patches feature large bores to allow passage of tools and equipment and minimize restriction to fluid flow.

Tubing/casing patches have three components:

- Top soft metal element with a rubber seal
- Tubular extension with threaded ends
- Bottom soft metal element with a rubber seal

Various patch lengths and bottom elements are swaged outward during the setting process. The tubular extension is not swaged. During setting, the pressure setting tool exerts a pushing force on the top tapered swage and a pulling force on the bottom tapered swage. Both swages are driven into the soft metal elements that expand and seal against the casing bore. At a predetermined force, a calibrated weak point shears in the setting tool, and the setting process ceases. A collapsible setting collet located in the bottom swage retracts and allows the pressure-setting tool and setting equipment to be retrieved. The damage interval is now isolated by a full circle metal-to-metal and rubber seal.

Note: Halliburton recommends the use of a casing scraper before patch installation to clear out foreign matter. We also recommend the use of a casing caliper to provide an accurate record of casing ID and condition.

Applications

- Repairing casing splits, parts, milled windows, dogleg wear points, and corrosion leaks
- Isolating a side pocket mandrel
- Isolating old perforations
- Repairing tubing and collar leaks

Features

- Pressure-setting tool with positive release provides quick, dependable patch setting
- Metal elements and elastomeric backups provide a positive seal
- Modular design using 10-ft extensions

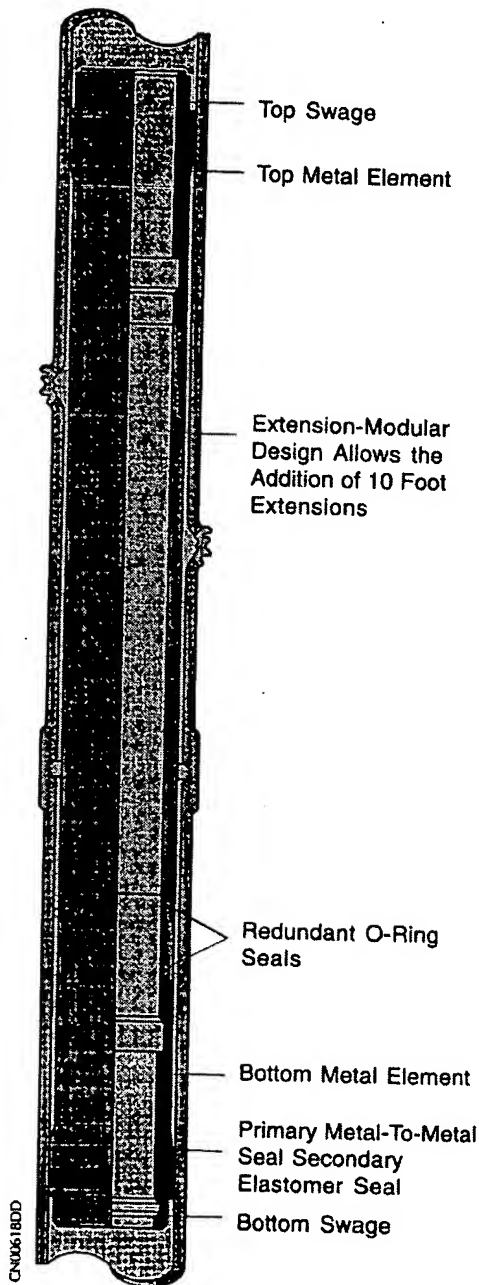
Benefits

- Repairs can be made quickly, reducing down time
- Can be run in and set under pressure using electric wireline or run in on tubing

- Can be set permanently in a variety of tubing or casing sizes
- Can be retrieved in most cases using conventional fishing methods

Options

- A variety of lengths are available up to 150 ft in some sizes



Tubing/Casing Patches

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